



**CIRCA PHARMACEUTICALS, INC.**

33 RALPH AVENUE P.O. BOX 30 COPIAGUE, NY 11726-0030  
(516) 842-8383 FAX (516) 842-8630

Archival Copy

January 29, 1999

Mr. Douglas Sporn  
Director  
Office of Generic Drugs  
Center for Drug Evaluation and Research  
FOOD AND DRUG ADMINISTRATION  
Metro Park North II  
Room 204, HFD 637  
7500 Standish Place  
Rockville, MD 20855

**NDA ORIG AMENDMENT**

N/Ac

**RE: Nicotine Polacrilex Gum, 4 mg; ANDA 74-707  
TELEPHONE AMENDMENT**

Dear Mr. Sporn:

Reference is made to our above mentioned Abbreviated New Drug Application dated July 6, 1995. Reference is also made to a telephone conversation between Radhika Rajagopalan, Chemistry Reviewer, and myself, dated January 28, 1999.

Dr. Rajagopalan contacted Circa in order to request that we include a blister seal integrity test during our stability studies of the drug product that is the subject of this ANDA. She referred to the request made by Dr. Florence Fang, Tertiary Reviewer, Office of Generic Drugs in regard to our nicotine polacrilex gum, 2 mg ANDA.

Dr. Fang had contacted Circa on October 7, 1998 in order to request that we include a \_\_\_\_\_ during our stability studies of this drug product. After careful consideration of this request, Circa contacted Dr. Fang (October 30, 1998) and informed her that the gum product identity, strength, quality and purity will be assured by the current stability specifications, which include potency assay, \_\_\_\_\_ ic purity and description/appearance. Therefore, we do not feel that the addition of a \_\_\_\_\_ st and specification for which we have no data on which to set a reasonable limit, would yield additional information about this drug product.

However, given the suggestion of Dr. Fang, Circa committed to include a \_\_\_\_\_ 1e post approval stability program for the 2 mg. In this regard, in response to Dr. Rajagopalan's request, we will also commit to include \_\_\_\_\_ in the post approval stability program for this product (first three commercial batches and annual batch thereafter). The method of test will be the \_\_\_\_\_ procedure that is commonly used in industry for in-process checks during a \_\_\_\_\_ packaging run. As stated previously, we have no data on which to base a reasonable specification, therefore, at this time, the specification will state "Report Results". When a database has been \_\_\_\_\_ established, Circa will evaluate the results, and decide what, if any, specification must be set. The ANDA will be supplemented as appropriate at that time. \_\_\_\_\_

100-111977



ANDA 74-707  
January 29, 1999  
Page 2

Dr. Fang had also requested that we report any failures of this test to the FDA at the stability timepoint they are discovered, rather than wait until the annual report. While Circa will agree to this request, we would like to reiterate that we are reporting these results, and that there is no specification. Any failure in the test will be reviewed in conjunction with our assay, purity and description/appearance tests. Should our chemistry analysis be within specification, the relevance of the test will be discussed with your office.

Thank you for your prompt review of this information. If there are any questions or problems, please do not hesitate to contact us immediately.

Pursuant to 21 CFR 314.96(b), we certify that a true field copy of this amendment has been sent by overnight courier to: Ms. Brenda Holman, District Director, FDA (NYK-DO), 850 Third Avenue, Brooklyn, NY 11232-1593.

Sincerely,  
CIRCA PHARMACEUTICALS, INC.

A handwritten signature in cursive script, reading "Joyce Anne DelGaudio".

Joyce Anne DelGaudio  
Director, Regulatory Affairs

Circa Pharmaceuticals, Inc.  
Attention: Joyce Anne DelGaudio  
33 Ralph Avenue  
P.O. Box 30  
Copiague, NY 11726-0030  
|||||

Jul 29 1997

This is in reference to your abbreviated new drug application dated July 6, 1995, submitted pursuant to Section 505(j) of the Federal Food, Drug, and Cosmetic Act, for Nicotine Polacrilex Gum USP, 4 mg.

We note that it is your intent to reformulate this drug product to more closely match the formulation of the innovator and amend the application to demonstrate the approvability of the reformulation. However, we wish to provide you with the following comments based upon the review of the original formulation. You should address all pertinent comments as part of your forthcoming amendment. As such, the application is deficient and, therefore, not approvable under Section 505 of the Act for the following reasons:

U100 Rec 100-2-1-1

Page(s) 3

Contain Trade Secret,  
Commercial/Confidential  
Information and are not  
releasable.

*Chemistry*

Labeling Deficiencies:

1. GENERAL COMMENTS:

- a. Please submit draft OTC labeling to this application.

- b. We encourage the inclusion of "USP" in the established name for this drug product where it appears on your labels and labeling.

2. CONTAINER

- a. See GENERAL COMMENTS.
- b. The innovator is required to market this product in a child-resistant blister. Please provide information regarding the child-resistant nature of your container.

3. CARTON

We encourage the use of boxing, contrasting colors, or other means to differentiate the strengths of this product from your proposed 2 mg strength product (ANDA

Please revise your labels and labeling, as instructed above, and submit draft labeling reflecting a change to OTC status.

To facilitate review of your next submission, and in accordance with 21 CFR 314.94(a)(8)(iv), please provide a side-by-side comparison of your proposed labeling with the labeling of the listed drug with all differences annotated and explained.

Please note that we reserve the right to request further changes in your labels and/or labeling based upon further changes in the approved labeling of the listed drug or upon further review of the application prior to approval.

In addition to responding to these deficiencies, please note and acknowledge the following comments in your reponse:

1. Please submit a copy of the "Consumer Research Preference Study" which is referenced in the August 15, 1996 correspondence.
2. Reference is made to the letter dated May 10, 1996 issued from the Division of Bioequivalence stating that the Division had completed its review and has no further questions. As the letter indicated, however, bioequivalency comments may be revised following, among other things, other scientific or regulatory issues. The forthcoming comparative analytical data in support of a waiver of new in vivo bioequivalence studies will require a reevaluation of the application by the Division of Bioequivalence.

The file on this application is now closed. You are required to take an action described under 21 CFR 314.120 which will either amend or withdraw the application. Your amendment should respond to all the deficiencies listed. A partial reply will not be considered for review, nor will the review clock be reactivated until all deficiencies have been addressed. The response to this letter will be considered a MAJOR amendment and should be so designated when your cover letter is submitted to the Agency. If you have substantial disagreement with our reasons for not approving this application, you may request an opportunity for a hearing.

Sincerely yours,

*[Handwritten signature]*

*Yr 1/28/97*

Frank O. Holcombe, Jr., Ph.D.  
 Director  
 Division of Chemistry II  
 Office of Generic Drugs  
 Center for Drug Evaluation and Research

11

June 3

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~~Keith K. Chan, Ph.D.~~

Office of Generic Drugs

Office of Generic Drugs

Center for Drug Evaluation and Research





CIRCA PHARMACEUTICALS, INC.

33 RALPH AVENUE P.O. BOX 30 COPIAGUE, NY 11726-0030  
(516) 842-8383 FAX (516) 842-8630

March 28, 1996

SENT VIA FAX

Mark Anderson  
Consumer Safety Officer  
Office of Generic Drugs  
Center for Drug Evaluation and Research  
FOOD AND DRUG ADMINISTRATION  
HFD-650, Room 279  
7500 Standish Place  
Rockville, MD 20855-2773

Dear Mr. Anderson:

Reference is made to our telephone conversation with Dr. Moo Park, Reviewer, Division of Bioequivalence, dated March 28, 1996. Dr. Park requested additional data to facilitate his review of the data generated from our nicotine polacrilex gum, 4 mg, abbreviated new drug application 74-707.

In this regard, we are faxing the following documents:

- 1) Assay and content uniformity data for the test product used in the biostudy, Lot #RD0965, manufactured by Circa.
- 2) Assay and content uniformity data for the reference product used in the biostudy, Circa control number 17137, Marion Merrell Dow (manufacturer) lot #TF101A. Please note that the report sheet reflects Circa's control number.
- 3) The batch record for the test batch. Please note that this documentation includes the batch records for Lot numbers RD0966 and RD0967, which reflect the two mixer loads of gum manufactured. The batch record for Lot number RD0965 reflects the rolling and scoring process. This is the lot number used for biostudy purposes, as it is the last process in the manufacture of our gum. \_\_\_\_\_s are utilized for one rolling and scoring process as this gives us an acceptable yield of more than \_\_\_\_\_ pieces.

If there are any further questions or problems, please do not hesitate to contact me immediately.

Sincerely,  
CIRCA PHARMACEUTICALS, INC.

Joyce Anne DelGaudio  
Director, Regulatory Affairs

ANDA 74-707

Circa Pharmaceuticals, Inc.  
Attention: Joyce Anne DelGaudio  
33 Ralph Avenue  
P.O. Box 30  
Copiague, NY 11726-0030

MAR 11 1996

Dear Sir:

We acknowledge the receipt of your abbreviated new drug application submitted pursuant to Section 505(j) of the Federal Food, Drug and Cosmetic Act.

Reference is also made to our "Refuse to File" letter dated August 17, 1995, and your amendment dated November 3, 1995.

NAME OF DRUG: Nicotine Polacrilex Gum, 4 mg

DATE OF APPLICATION: July 6, 1995

DATE OF RECEIPT: July 7, 1995

DATE ACCEPTABLE FOR FILING: November 9, 1995

We will correspond with you further after we have had the opportunity to review the application.

Please identify any communications concerning this application with the ANDA number shown above.

Should you have questions concerning this application, contact:

Tim Ames  
Project Manager  
(301) 594-0305

Sincerely yours,

11/96  
Jerry Phillips  
Acting Director  
Division of Labeling and Program Support  
Office of Generic Drugs  
Center for Drug Evaluation and Research

*King*  
**KING & SPALDING**

1730 PENNSYLVANIA AVENUE, N.W.  
WASHINGTON, DC  
20006-4706

TELEPHONE: 202/737-0500  
FACSIMILE: 202/626-3737

BIOAVAILABILITY

191 PEACHTREE STREET  
ATLANTA, GEORGIA 30303-1763  
TELEPHONE: 404/572-4600  
FACSIMILE: 404/572-5100

November 3, 1995

120 WEST 45TH STREET  
NEW YORK, NY 10036-4003  
TELEPHONE: 212/556-2100  
FACSIMILE: 212/556-2222

Charles Ganley, M.D.  
Acting Director  
Office of Generic Drugs  
Center for Drug Evaluation and Research  
Food and Drug Administration  
Document Control Room  
Metro Park North II, HFD-600, Room 150  
7500 Standish Place  
Rockville, Maryland 20855-2773

Re: ANDA 74-707/Nicotine Polacrilex Gum, 4 mg./  
Amendment to Request ANDA Waiver

Dear Dr. Ganley:

Page(s) 5

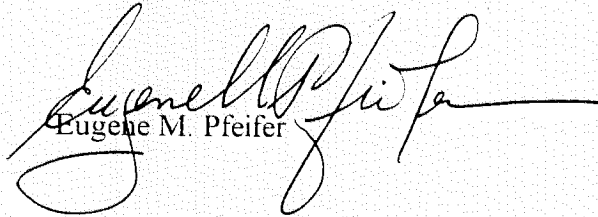
Contain Trade Secret,  
Commercial/Confidential  
Information and are not  
releasable.

*raw material*

Charles Ganley, M.D.  
November 3, 1995  
Page 7

Please call me if you have any questions regarding this ANDA amendment and request for a waiver, or if you would like to discuss this matter further.

Sincerely,

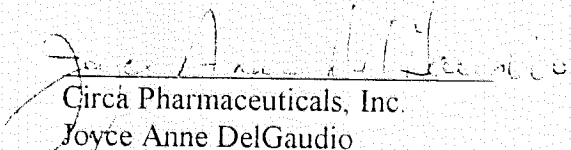
  
Eugene M. Pfeifer

cc: Margaret Jane Porter, Esq.  
Roger Williams, M.D.

## FIELD COPY CERTIFICATION

Pursuant to 21 C.F.R. § 314.96(b), Circa certifies that a true field copy of this amendment has been sent by overnight courier to:

Mr. Edward T. Warner, District Director  
Food and Drug Administration (NKK-DO)  
850 Third Avenue  
Brooklyn, New York 11232-1593

  
Circa Pharmaceuticals, Inc.  
Joyce Anne DelGaudio  
Director, Regulatory Affairs

Circa Pharmaceuticals, Inc.  
Attention: Joyce Anne DelGaudio  
33 Ralph Avenue  
P.O. Box 30  
Copiague, NY 11726-0030

AUG 17 1995

Dear Madam:

Please refer to your abbreviated new drug application (ANDA) dated July 6, 1995, submitted under Section 505(j) of the Federal Food, Drug and Cosmetic Act for Nicotine Polacrilex Gum, 4 mg.

We have given your application a preliminary review, and we find that it is not sufficiently complete to merit a critical technical review.

We are refusing to file this ANDA under 21 CFR 314.101(d)(3) for the following reason:

The application is not acceptable for filing under Section 505(j) of the Act because your proposed formulation contains an inactive ingredient that has not been approved for use in a drug product intended for human use by the same route of administration [314.127(a)(8)(ii)]. Since, according to the regulation, there is reasonable basis to conclude that one of the inactive ingredients in your proposed drug product (i.e., \_\_\_\_\_ raise questions of safety, the Office of Generic Drugs will not file this application.

Thus, it will not be filed as an abbreviated new drug application within the meaning of Section 505(j) of the Act.

In addition, while we note that you have provided a list of convictions, you have failed to provide information regarding **affiliated persons** responsible for the development and submission of the application. Please note that contractors responsible for the development of data and other information used to support approval of an application are affiliated persons. Please provide a revised list of convictions with an original signature.

Within 30 days of the date of this letter you may amend your application to include the above information or request in writing an informal conference about our refusal to file the application. To file this application over FDA's protest, you must avail yourself of this informal conference.

If after the informal conference, you still do not agree with our conclusion, you may make a written request to file the application over protest, as authorized by 21 CFR 314.101(c). If you do so, the application shall be filed over protest under 21 CFR 314.101(b). The filing date will be 60 days after the date you requested the informal conference. If you have any questions please call:

William Russell  
Consumer Safety Officer  
(301) 594-0315

Sincerely yours,

/S/

Jerry Phillips  
Acting Director  
Division of Labeling and Program Support  
Office of Generic Drugs  
Center for Drug Evaluation and Research





**CIRCA PHARMACEUTICALS, INC.**

33 RALPH AVENUE P.O. BOX 30 COPIAGUE, NY 11726-0030  
(516) 842-8383 FAX (516) 842-8630

*Refer to file  
7/13/95*

July 6, 1995

Douglas Sporn  
Acting Director  
Office of Generic Drugs  
Center for Drug Evaluation and Research  
FOOD AND DRUG ADMINISTRATION  
Document Control Room  
Metro Park North II  
HFD-600, Room 150  
7500 Standish Place  
Rockville, MD 20855-2773

**RE: NICOTINE POLACRILEX GUM, 4 mg**

Dear Mr. Sporn:

Pursuant to 21 CFR part 314, subpart C and Section 505(j) of the Federal Food, Drug and Cosmetic Act, we are submitting an Abbreviated New Drug Application for nicotine polacrilex gum, 4 mg.

The concept of developing a gum dosage form that was bioequivalent to Nicorette®, started in mid-1990. Soon after developing the 2 mg dosage form that is the subject of ANDA 74- we began development work on a product that would be bioequivalent to Nicorette® DS. Both strengths were thought to be products that were truly unique to the generic drug industry and would offer a development and manufacturing challenge to our new organization.

This submission contains an archival copy (17 volumes in blue jackets) and review copies (5 volumes in red jackets/chemistry, manufacturing and controls technical review section and 12 volumes in orange jackets/pharmacokinetics technical review section). We have also enclosed 2 separately bound copies of the method validation package. These sections comply with the regulations set forth in 21 CFR §314.94(d)(2).

The pivotal bioequivalence study was conducted in fasting subjects, comparing Circa's Nicotine Polacrilex Gum, 4 mg, Lot # RD0965 to Marion Merrell Dow Nicorette® DS, Lot # TF101A. A "Chew-Out" Study comparing the release rates of our product to Nicorette® DS was also conducted. Full reports of these studies are included with this submission.

continued...

**RECEIVED**

JUL 07 1995

**GENERIC DRUGS**



Page Two  
July 6, 1995  
Nicotine Polacrilex Gum, 4 mg

There are no requests for biowaivers included in this submission, as it is for only the 4 mg strength of nicotine polacrilex gum.

Following this cover letter, please find the Certification required by the Generic Drug Enforcement Act of 1992, and the Office of Generic Drugs letter dated January 15, 1993. The required patent certification information to show that the drug product provided in this application is the same as the listed drug and a completed Form FDA 356h are also included.

Pursuant to 21 CFR 314.96(b), we are submitting a field copy of the Chemistry, Manufacturing and Controls section of this ANDA. We certify that a true copy of the CMC section of this application has been sent by overnight courier to:

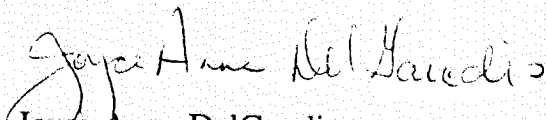
Mr. Edward T. Warner, District Director  
Food and Drug Administration (NYK-DO)  
850 Third Avenue  
Brooklyn, New York 11232-1593

If you have any questions concerning this ANDA, please contact Joyce Anne DelGaudio at (516) 842-8383.

Please be advised that the material and data contained in this submission are confidential. The legal protection of such confidential material is hereby claimed under applicable provision of 18 U.S.C., Section 1905 and/or 21 U.S.C., Section 331(j).

We look forward to your prompt review of the submitted information.

Sincerely,

  
Joyce Anne DelGaudio  
Director, Regulatory Affairs